

**Response of
Wisconsin Power and Light Company
to
The Public Service Commission of Wisconsin
Data Request No. 1.23**

Docket Number: 05-CE-137
Date of Request: January 29, 2009
Information Requested By: Ken Detmer
Date Responded: February 16, 2009
Author: Eric Guelker
Author's Title: Mgr Environmental Services
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Witness: (If other than Author)

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Describe how the fleet-wide plan addresses PM₁₀ and/or PM_{2.5} emissions.

Note:

While this project is part of WPL's fleet-wide air emissions control plan, WPL can only comply with RACT by reducing NO_x emissions at the Edgewater facility.

Response:

Both PM₁₀ and primary PM_{2.5} will be reduced by the addition of dry scrubbers including bag houses needed to support their operation at the units identified in the emissions control plan. Secondary PM_{2.5} will also be reduced through the reductions of NO_x and SO₂ emissions resulting from the combustion optimization, selective non-catalytic reduction (SNCR), rich reagent injection (RRI) and selective catalytic reduction (SCR) as well as scrubber projects included in the plan. NO_x and SO₂ emissions are precursors to the formation of PM_{2.5} in the atmosphere. The selection of SO₂ control systems considers the possible impact of increased PM₁₀ and primary PM_{2.5} emissions with dry scrubbers providing better performance regarding the emission of these pollutants as well as acid gases such as sulfuric acid mist.